

Thursday, April 15, 2021

Attn: Mr. Keith Gammell Barnhardt Mfg. Co. 247 Main Rd P.O. Box 3 Colrain, MA 01340

Project ID: NPDES APRIL 2021

SDG ID: GCH94579 Sample ID#s: CH94579

This laboratory is in compliance with the NELAC requirements of procedures used except where indicated.

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory. This report is incomplete unless all pages indicated in the pagination at the bottom of the page are included.

A scanned version of the COC form accompanies the analytical report and is an exact duplicate of the original.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Sincerely yours,

Phyllis/Shiller

Laboratory Director

NELAC - #NY11301

CT Lab Registration #PH-0618
MA Lab Registration #M-CT007

ME Lab Registration #CT-007

NH Lab Registration #213693-A,B

NJ Lab Registration #CT-003

NY Lab Registration #11301

PA Lab Registration #68-03530 RI Lab Registration #63

UT Lab Registration #CT00007

VT Lab Registration #VT11301



587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823

Sample Id Cross Reference

April 15, 2021

SDG I.D.: GCH94579

Project ID: NPDES APRIL 2021

Client Id	Lab Id	Matrix
EFFLUENT	CH94579	WASTE WATER



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Analysis Report

April 15, 2021

FOR: Attn: Mr. Keith Gammell

Barnhardt Mfg. Co.

247 Main Rd P.O. Box 3

Colrain, MA 01340

Sample InformationCustody InformationDateTimeMatrix:WASTE WATERCollected by:04/07/217:00

Matrix: WASTE WATER Collected by: 04/07/21 7:00 Location Code: BARNHARD Received by: CP 04/07/21 16:40

Rush Request: Standard Analyzed by: see "By" below

P.O.#: G12043 SDG ID: GCH94579

Laboratory Data SDG ID: GCH94579

Phoenix ID: CH94579

Project ID: NPDES APRIL 2021

Client ID: EFFLUENT

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	Ву	Reference
Copper	0.028	0.003	mg/L	1	04/09/21	CPP	E200.7
B.O.D./5 day	4.5	4.0	mg/L	2	04/07/21 16:40	RVM/LJ	SM 5210B-11
B.O.D./5 day End Incubation					04/12/21 13:19	RVM/LJ	SM 5210B-11
C.O.D.	186	10	mg/L	1	04/09/21	QH	SM 5220D-11
Ammonia as Nitrogen	2.10	1.00	mg/L	20	04/14/21	KDB	E350.1
Nitrite-N	0.803	0.100	mg/L	10	04/07/21 22:08	TB	E353.2
Nitrate-N	9.40	0.20	mg/L	10	04/07/21 22:08	TB	E353.2
Nitrogen Tot Kjeldahl	12.7	2.00	mg/L	20	04/14/21	KDB	E351.1
Total Nitrogen	22.9	0.10	mg/L	1	04/14/21	KDB	SM4500NH3/E300.0-11
Phosphorus, as P	4.19	0.050	mg/L	5	04/09/21	JR	SM4500PE-11
Total Suspended Solids	8.0	5.0	mg/L	1	04/08/21	ARG	SM 2540D-11
Total Metals Digestion	Completed				04/08/21	AG	

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

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Phyllis Shiller, Laboratory Director

April 15, 2021

Reviewed and Released by: Rashmi Makol, Project Manager



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QA/QC Report

April 15, 2021

QA/QC Data

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Parameter	Blank	Blk RL	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
QA/QC Batch 570216 (mg/L), QICP Metals - Aqueous	2C Sam	ple No: (CH94921	(CH945	579)									
Copper Comment:	BRL	0.0025	3.44	3.56	3.40	103	104	1.0	NC			80 - 120	20	
Additional: LCS acceptance range	e is 80-12	20% MS a	acceptance	e range 7	75-125%									



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QA/QC Report

April 15, 2021

QA/QC Data

SDG I.D.: GCH94579

Parameter	Blank	Blk RL	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 570062 (mg/L),	QC Samp	ole No:	CH94124	(CH945	79)								
B.O.D./5 day	BRL	2.0	<4.0	<4.0	NC	84.0			81.8			70 - 130	20
B.O.D./5 day GGA BOD						92.7						84 - 115	20
QA/QC Batch 570181 (mg/L),	QC Samp	ole No:	CH94449	(CH945	79)								
Total Suspended Solids	BRL	2.5	<3.3	<3.3	NC	96.0						85 - 115	
QA/QC Batch 570336 (mg/L),	QC Samp	ole No:	CH94723	(CH945	579)								
Phosphorus, as P Comment:	BRL	0.01	2.54	2.60	2.30	95.8			90.7			85 - 115	20
Additional: LCS acceptance ran	ge is 85-11	5% MS	acceptance	e range 7	75-125%								
QA/QC Batch 570385 (mg/L),	QC Samp	ole No:	CH94792	(CH945	79)								
C.O.D. Comment:	BRL	10	12	<10	NC	94.8			102			85 - 115	20
Additional: LCS acceptance ran	ge is 85-11	5% MS	acceptance	e range 7	75-125%								
QA/QC Batch 570100 (mg/L),	QC Samp	ole No:	CH94550	(CH945	579)								
Nitrate-N	BRL .	0.02	< 0.02	<0.02	NC	95.5			93.4			90 - 110	20
Nitrite-N	BRL	0.01	< 0.010	0.01	NC	102			106			90 - 110	20
QA/QC Batch 570772 (mg/L),	QC Samp	ole No:	CH94307	(CH945	79)								
Ammonia as Nitrogen	BRL	0.05	19.0	20.6	8.10	92.0			99.5			90 - 110	20
Nitrogen Tot Kjeldahl Comment:	BRL	0.10	30.3	32.6	7.30	104			104			85 - 115	20
TKN is reported as Organic Nitro	ogen in the	Blank,	LCS, DUP	and MS.									

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

RPD - Relative Percent Difference

LCS - Laboratory Control Sample

LCSD - Laboratory Control Sample Duplicate

MS - Matrix Spike

MS Dup - Matrix Spike Duplicate

NC - No Criteria

Intf - Interference

Phyllis/Shiller, Laboratory Director

April 15, 2021

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Sample Criteria Exceedances Report GCH94579 - BARNHARD

Criteria: None State: MA

State: MA

RL Analysis
SampNo Acode Phoenix Analyte Criteria Units
Result RL Criteria Units

Phoenix Laboratories does not assume responsibility for the data contained in this exceedance report. It is provided as an additional tool to identify requested criteria exceedences. All efforts are made to ensure the accuracy of the data (obtained from appropriate agencies). A lack of exceedence information does not necessarily suggest conformance to the criteria. It is ultimately the site professional's responsibility to determine appropriate compliance.

^{***} No Data to Display ***



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Analysis Comments

April 15, 2021 SDG I.D.: GCH94579

The following analysis comments are made regarding exceptions to criteria not already noted in the Analysis Report or QA/QC Report: None.

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Ba of	and had	This section MUST be completed with Bottle Quantities.	1 \ \(\dots \ \dots \dots \ \dots \dots \ \dots	Data Format Cals/Key Cals/Ke	* SURCHARGE APPLIES
Cooler: Cooler: TEMP	Data Delivery	I I	Tri Older St.		ected:
	& VXX	2021 Terahelun		ert MA GW-3 GW-3 GW-3 GW-3 GW-3 GW-3 GW-3 GW-3	State where samples were collected:
CHAIN OF CUSTODY RECORD	Email: info@phoenixlabs.com Fax (860) 645-0823 Client Services (860) 645-8726	NODES - APCI) ICH Gamell - Bill Brankardt	(0) 21; 200 0; 10; 10; 10; 10; 10; 10; 10; 10; 10	2 (a) (b) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c	es
OUSTON	dale Tumpike, P.O. Box 370, Mancheste info@phoenixlabs.com Fax (860) 64 Client Services (860) 645-8726	– ;; ;;	by		Objectives
NIAH TC	East Middle Tumpike, P.O. Box Email: info@phoenixlabs.com	Project: Report to: Invoice to:	Analysis Request	d Time:	Other *SURCHARGE APPLIES ** **
ا	587 East M Email:		1-7-21 E Water E OIL=Oil	Time Sampled 7 20-	* SURCHA
		O13 4.0	ation Date: 4-7-1 Er Ww=Waste Water Jid w=Wipe OIL=Oil	Sample Sampled Sampled C 4-7-11 C 4-7-21 C 4-7-2	accordance
	s. Inc.		ion - Identific	Sample Matrix WW	lled as such in
	PHOEINIX SERVITOR INC.	Sanhardt 241 man ed Gran mass	Sampler's Signature Sample - Information - Identification Sampler's Signature Matrix Code: Date: 4-7-21 Matrix Code: DW=Drinking Water GW=Ground Water SW=Surface Water WW=Waste Water RW=Rw=Rw Water SE=Sediment SL=Sludge S=Soil SD=Soild W=Wipe OIL=Oil B=Bulk L=Liquid X =	PHOENIX USE ONLY SAMPLE # Identification 94579 EPE LULY	MSMSD are considered site samples and will be billed as such in accordance with the prices quoted.
	PHO Environmen	Customer: Address:	Sampler's Signature Matrix Code: DW-Drinking Water RW=Raw Water SE=B=Bulk L=Liquid X =	PHOENIX USE ONLY SAMPLE # 94579 Comments, Special R	*MS/MSD are considered with the prices quoted.